	TOLSTINHINA, M. M.	PA 77731
estima.		(P)
	USER/Geology Freezing Rock Formation	Mar 1948
	"The Effect of Freezing in the Sou Region," M. M. Tolstikhina, 1 p	thern Lake Onega
	"Priroda" No 3	
	Describes boulder fields being for subject region.	med by plantation in
	FDB	577731
	er er er	x .
•		

KAMENSKIY, Grigoriy Mikolayevioh [deceased]; TOLSTIKHINA, Matil'de Moiseyevna; TOLSTIKHIN, Mestor Ivanovich; MAKSIMOVICH, G.A., prof., reteensent; SHAGOYANETS, A.M., prof., retsensent; OVCHINNIKOV, A.M., prof., neuchnyred.; FILIPPOVA, E.S., red.izd-ve; GUROVA, O.A., tekhn.red.

[Hydrogeology of the U.S.S.R.] Gidrogeologiia SSSR. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrene nedr, 1959. 365 p. (Water, Underground)

(Water, Underground)

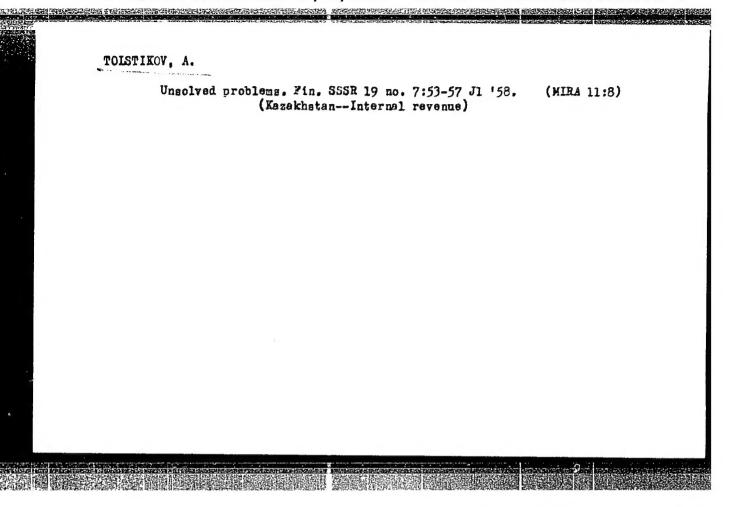
BUGROVA, E.M.; KAKHANOVA, L.P.; KONDITEROV, V.N.; TOLSTIKOVA, N.V.; TPAVINA, T.F.

Conditions governing the sedimentation in Badkhyz in the Paleogene. Trudy VSEGEI 109:238-263 '63. (MIRA 17:7)

TOLSTIKOVÁ, Nadezhda Vasil'yevna; KCROBKOV, I.A., doktor geol.-miner. nauk, otv. red.

[Alay and Turkestan mollusks in Badkhyz] Molliuski alaiskikh i turkestanskikh sloev Badkhyza. Moskva, Nauka, 1964. 121 p. (MIRA 17:9)

WO EN SE SALEMEN	"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2	
	TOLETIKOVA, N.V.	
	Boundary between the Fackbyz and Namaksarskaya corizons of Badkbyz. Trudy V.EGE. 109:193-195 63. (Min. 17.7)	
4.		
de estado estado		



 AFFROVED FOR RELEASE. 07/10/2001	CIA-RDF00-00313R001730120007-2
TOLSTIKOV, A.	
Rrgent problems. Fin. SSSR 17 no.5:5 (KazakhstanRevenue	3-58 My '56. (MLRA 9:8)
3	

TOLSTIKOV, A.I.

"Opyt Proek tirovaniya, Naladki i Ekspluatatsii Pnevmotslakoudaleniya V Promyshlennykh Kotel'nykh," Proceedings of a Conference on Problems of Ash Removal, Ash and Slag Removal, and Ash and Slag Utilization, (Trudy Konferentsiya Po Voprosam Zoloulavlivaniya, Shlakozoloulavlivaniya I Shlarozoloispol'Zovaniya). U.S.S.R. Gosenergoizdat (Moscow:.. Gosenergoizdat, 1955, 160pp.; abstr. in Teploenergetika (Heat Pur Engng, Moscow), June 1956, 64). There are ten papers on atmospheric pollution, flue gas cleaning, cyclones, instrumentation, pneumatic removal of ash, ash handling, and the use of ash for heat insulation and construction.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"

AID P - 3070

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 4/29

Authors

Tolstikov, A. I., and Rysakov, N. F., Engs.

Title

Pneumatic removal of slag and ashes from the boiler room with layer

burning of fuel

Periodical : Energetik, 7, 8-10, J1 1955

Abstract

: The authors describe an installation of three 30 t/hr boilers operating on lignite coming from Chelyabinsk and Korkinsk. The traveling grate-stokers are of the BTsR type. The pneumatic removal of slag and ashes was built according to the design of the Uralenergomontazh. The authors explain in detail the functioning

of this arrangement. Six drawings.

Institution: None

Submitted : No date

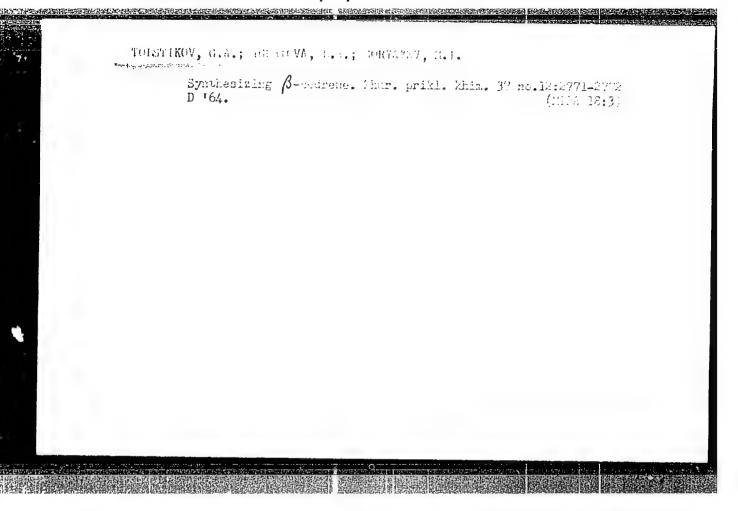
TOISTIKOV, A. I.
V. A. TMATONEKII, Za Fkon Topliva, 1950, (3), 27-30

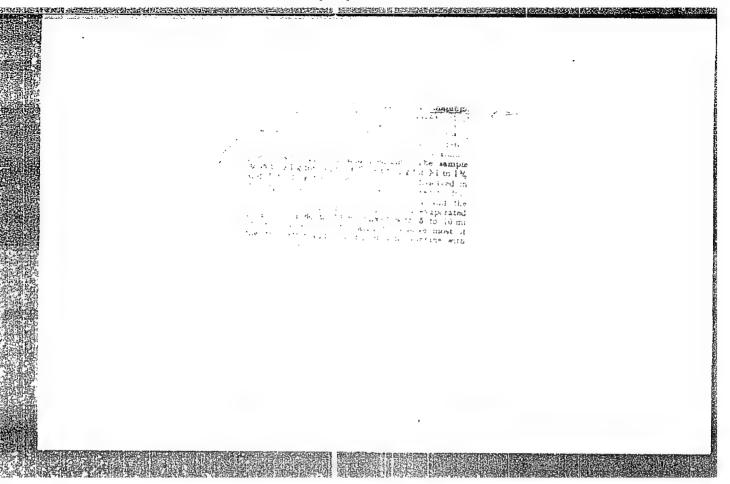
Improve the training of mine technicians. Mast. ugl. 7 no.10:27

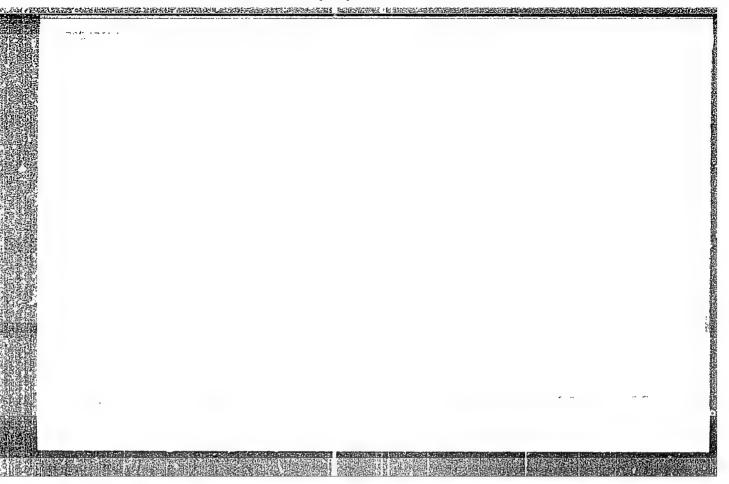
O '58.(MIRA 11:11)

1. Golubovskiy vecherniy gornyy tekhnikum.

(Mining engineering--Study and teaching)







37/79-28-8-23/66 Goryayev, M. I., Volkova, 7. S., Tolstikov, G. S. AUTHORS:

On the Problem of Hydrogen Bonds in Meconic Acid (K voprosu TITLE:

o vodorodnoy svyaši v mekonovoy kislote)

Zhurnal obshchey khimii, 1958, Vol. 29, Nr 8, pp. 2102-2107 FMRIODICAL:

(USSR)

ABSTRACT: The structure of meconic acid (mekonovaya kislota) permits

with good probability to assume the presence of an intremelecular hydrogen bond. The problem is basically of which

type the latter is, of type (I) or (II);

Card 1/3

On the Problem of Hydrogen Bowls in Meconic Acid SOV/79-28-8-23/66

As is known (Refs 1-3), the presence of an intramolecular hydrogen bond in the molecule which contains a hydroxyl and a carboxyl group in the orthoposition causes a considerable change in the behavior of these groupings. No anomaly is detected in the molecular weight of phenols which contain this bond when they are determined in a neutral solvent, i.e. no reduction of the acidity or a complication of the ester formation. The participation of the carboxyl group in the intramolecular hydrogen bond leads to the increase of the acidity, to a complication of the ester formation, and to a facilitation of the decarboxylation. On the strength of this position the authors investigated several derivatives of the 3-oxy-4-pyrons all of which were obtained from the meconic scid which was produced from the wate products of opium production. the "meconates". A stable intramolecular hydrogen bond was found to exist in meconic acid. This bond is an ingredient of a six-membered cycle. The dissock tion constants of meconic acid, of comenic acid (komenovaya kielota), and of pyromeconic acid according to the potentiometric titration were determined. The ester of 3-methoxy-4-pyrone-6-6arboxylio acid was obtained which is not yet described in the publications. Figure 1 gives

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"

On the Problem of Hydrogen Bonds in Leconic Acid

201/73-28-8-25/66

the scheme of the molecule of the meconic acid with the mutual distance of the atoms. There are 4 figures, 2 tables, and

12 references, 7 of which are Soviet.

ASSOCIATION:

Kezakhskiy gosudarstvennyy universitet

(Kazakh is State University)

SUBMITTED:

January 22, 1958

Card 3/3

GLADYSHEV, V.P.; TOLSTIKOV, G.A.

Polarographic reduction of meconic acid on a mercury electrode.

Izv.AN Kazakh.SSR.Ser.khim. no.1:47-54 159. (MIRA 13:6)

1. Kazakhskiy gosudarstvennyy universitet i Institut khimicheskikh nauk AN KazSSR.

(Meconic acid)

GORYAYEV, M.I.; IGNATOVA, L.A.; TOLSTIKOV, G.A.

Ultraviolet absorption spectra of 2,4-dinitrophenylhydrazones of certain terpenes. Izv.AN Kazakh.SSR.Ser.khim. no.1:85-86 '59.

(MIRA 13:6)
(Terpenes--Spectra) (Hydrazones--Spectra)

5 (3). AUTHOR: Tolstikov, G. A.

Ultraviolet Absorption Spectra of 3-Oxy-J-pyrone Derivatives TITLE: (Ulitrafioletovyye spektry pogloshcheniya proizvodnykh 3-oksi-

-/-pirona)

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2372 - 2377 PERIODICAL:

(USSR)

Little has been published in publications on the spectroscopy ABSTRACT:

of y-pyrones (Refs 1-3). However, the oxonium compounds of the same pyrones have been investigated in greater detail (Refs 4-6). The absorption spectra of J-pyrones must consist of highly intense bands characterizing electron transitions in the

SOV/79-29-7-60/83

conjugated  $\pi$ -bond system ( $\pi$ - $\pi$ <sup>#</sup> transitions) and of weak bands

caused by  $n-\pi^{\#}$  transitions in the carbonyl group. The author studied the absorption spectra of 3-oxy-1-pyrone and its derivatives: of the methoxy- - pyrone of comenic acid and its ethyl ester, of the ethyl ester of methoxycomenic acid, of meconic acid and its diethyl and triethyl ester. These compounds were recrystallized several times until their melting points were

constant. The spectra of the aqueous, ether, and n.-heptane

Card 1/3

Ultraviolet Absorption Spectra of 3-Oxy-j-pyrone SOV/79-29-7-60/83

solutions of these substances were taken by means of the spectrophotometer SF-4. Special attention was devoted to the investigation of the nature of the intramolecular hydrogen bonds in the various oxypyrone derivatives as well as to the effect of the solvent on their absorption spectra. No reference was made to these problems in earlier publications. In order to eliminate the effect of hydroxyl in the carboxyl groups, the acids were converted to their esters. Evaluation of the spectra yielded the results given in a table and figures 1-4. The stability of the intramolecular hydrogen bond was found to decrease in the following order: meconic acid oxypyrone comenic acid. Hitherto the intramolecular hydrogen bond in meconic acid (I), comenic acid (II), and oxypyrone (III) has been represented by the formulas (I), (II), and (III). These structures the structure of tures had been derived from a comparison of the reactivity of the hydroxyl and the carboxyl groups of these acids (Ref 7). The results of the present investigation, described in greater detail in the report, made a more exact treatment of this problem possible. The author thanks Yu. A. Kushnikov for valuable

Card 2/3

Ultraviolet Absorption Spectra of 3-0xy-Y-pyrone SOV/79-29-7-60/83

advice. There are 4 figures, 1 table, and 10 references, 4 of

ASSOCIATION:

Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR (Institute of Chemical Sciences of the Academy of Sciences,

Kazakhskaya SSR)

SUBMITTED: July 29, 1958

Card 3/3

Compounds entering into the composition of essential oils. Lart 1:
Increrization of estate code. Zhur. ob. khir. 31 no. 2:644(bille 14:2)

1. Institut khimicheskikh ratk AF Fasckhskoy SSR.
(Codrens)

8/080/61/034/004/011/012 A057/A129

AUTHORS: Goryayev, M. I., Tolstikov, G. A., Yel'chibekova, L. A.

TITLE: On the preparation of monoperphthalic acid

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 4, 1961, 946 - 947

TEXT: In the present paper a method for preparation of monoperphthalic acid is described, based on an improvement of the method presented by E. Royals and L. Harrell (Ref. 3: J. Am. Chem. Soc., 77, 3405, 1955). Monoperphthalic acid is used, as well as perbenzoic acid, for epoxidation of unsaturated compounds. Monoperphthalic acid is usually prepared by H. Boehme's method (Ref. 1: Ber., 70, 379, 1937), but this method has some disadvantages. Royals and Harrell's method is based on mixing phthalic Aphydride, 30 % hydrogen peroxide and diethylether at room temperature for 24 hours. The present authors tested this method and observed that the indicated yield of 65 % can be attained already after a time of mixing of only 6 hours. If the procedure is carried out at 30 - 35°C a yield of 65 - 70 % is obtained in 3 - 4 hours. Increasing the used hydrogen peroxide amount to a double amount makes possible to obtain monoperphthalic acid with a 63 - 65 % yield after mixing for 1 hour at 30 - 35°C. The following proce-Card 1/3

On the preparation of monoperphthalic acid

S/080/61/034/004/011/012 A057/A129

dure was carried out in the present experiments: After mixing the three components for a certain time at a given temperature (see table) the ethernal layer was washed 3 - 4 times with 40 % ammonium sulfate solution and dried with calcinated sodium sulfate. The amount of active oxygen was determined iodometrically. Extraction of the aqueous layer with ether increase the monoperphthalic acid yield by 4 - 5 %. In all experiments 30 g (0.2 mole) phthalic anhydride and 200 ml ether were used. Monoperphthalic acid obtained by one of the procedures (see table) was used for the oxidation of cedrene by the following method 40.8 g (0.2 mole) of a rene was oxidized at 0°C in the ethereal solution of monoperphthalic acid, containing 3.50 g (0.22 mole) of active oxygen. The mixture was left to stand at 0°C for 24 hours, the precipitated phthalic acid was filtered off and washed with ether, then the ethereal solution was washed several times with 5 % NaOH solution and subsequently with water, and was dried with sodium sulfate. After vacuum distillation 39.7 g (90 %) of cedrene oxide with a boiling point of 121 - 121.5°C (5 mm),  $n_{\rm b}^{\rm CO} = 1.4962$ ,  $d_{\rm b}^{\rm CO} = 1.0032$ ,  $[CL]_{\rm b}^{\rm CO} = 81.2°$  was obtained. There is 1 table and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

SUBMITTED: July 16, 1960

Card 2/3

CORYAYEV, M.I., akademik; TOLSTIKOV, G.A.

Synthesis of β-cedrene. Dokl. AN SSSR 139 no.2:363-366 J1 '61.

(MIRA 14:7)

1. Institut khimicheskikh nauk AN KazSSR. 2. AN KazSSR (for Goryayev).

(Cedrene)

POTAPOV, V.M.; GORYAYEV, M.I., akademik; TOLSTIKOV, G.A.; TERENT'YEV, A.P.

Rotatory dispersion of cedrane series compounds. Dokl. AN SSSR 140 no.6:1341-1344 0 61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. 2. AN Kazakhskoy SSR (for Goryayev). 3. Chlen-korrespondent AN SSSR (for Terent'yev).

(Cedrane)

GORYAYEV, M.I., akademik; TOISTIKOV, G.A.

Structure of sabinene monohydrochloride. Dokl. AN SSSR 1/41 no.4: 855-856 D '61. (MIRA 14:11)

1. Institut khimicheskikh nauk AN KazSSR. 2. AN KazSSR (for Goryayev). (Thujene)

GORYAYEV, M.I.; TOLSTIKOV, G.A.

Study of the substances entering into the composition of assential

oils. Part 2: Condensation of sabinene with diazoacetic ester. Zhur. ob. khim. 32 no.1:310-312 Ja '62. (MIRA 15:2)

1. Institut khimicheskikh nauk AN Kazakhskoy SSR.
(Sabinene) (Acetic acid)
(Essences and essential oils)

RADAKOV, G.A.; GORYAYEV, M.I.; TOLSTIKOV, G.A.

Catalytic transformations of terpenes. Part 9: Isomerization of sabinene by means of metatitanic acid. Zhur. ob. khim. 32 no.1: 312-315 Ja '62. (MIRA 15:2)

1. Institut khimicheskikh nauk AN Kazakhskoy SSR. (Sabinene) (Titanic acid)

 S/079/62/032/003/006/007 D204/D302

AUTHORS:

Goryayev, N.I. and Tolstikov, G.A.

TITLE:

Study of compounds occurring in volatile oils. IV. Reduc-

tion of the C. -oxide of cedrene (A)

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 3, 1962, 997-999

TEXT: Reduction of A with LiAlH $_4$  (in 300% excess) gave, after boiling for 24 hours, 35% of pseudocedrol and some isocedrenol. Catalytic hydrogenation of A on skeletal Ni gr Adams' Pt did not proceed at 40°C and atmospheric pressure. At 110°C and under a pressure of 130 atm of H $_2$ ,

A yielded 66% of isocedranol. Full experimental details are given. There are 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: A. Moor, J.Am.Chem.Soc. 78, 1173, (1956),

ASSOCIATION:

Institut khimicheskikh nauk An Kaz. SSR (Institute of Chemi-

cal Sciences AS Kazakhskaya SSR)

February 7, 1961

SUBMITTED: Card 1/1

TOLOTIECY, G.A.: COLUMNIU, M.I.; TOLOTIECYA, L.F.; KIM ETA GE

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of gyrave on of purgrahetic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of purgrahetic and elemenic acids.

Propagation of gyrave on of gyrave on

GORYAYEV, M.I.; IGNATOVA, L.A.; TOLSTIKOV, G.A.; DEMBITSKIY, A.D.

Chemicals constituents of essential oils. Part 13: Hydrogenation of 4-terpinenol and the synthesis of some amino derivatives of p-menthane. Zhur. ob. khim. 35 no.7:1186-1190 J1 '65. (MIRA 18:8)

1. Institut khimii AN KazSSR.

IGNATOVA, L.A.; TOISTIROV, G.A.; LISHTVMACHA. .....; COPYANEV, d.1.

Chemical composition of essential of; from Juniperus semiglobosa Egl.

Zhur. prikl. knim. 37 nc.6:1380.1391 fe 164.

(MIRA 18:3)

TOLSTIKOV, G.A.

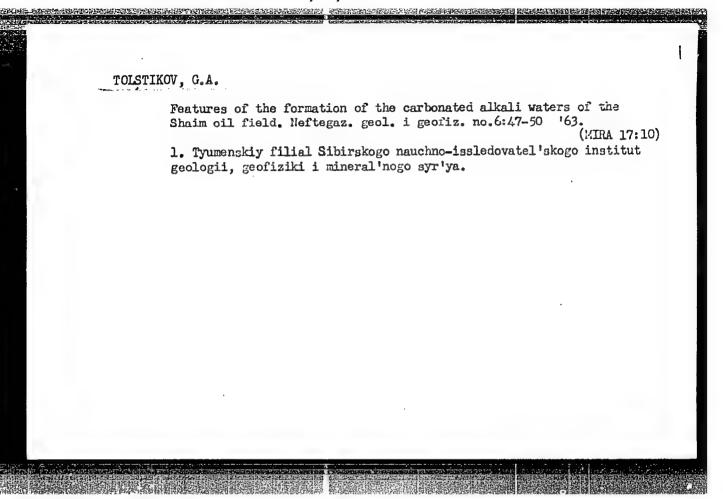
Dynamics of the underground waters of the Mesozoic sediments of the Siberian portion of the Ural Mountain region. Neftegaz.geol. (MIRA 18:5) i geofiz. no.1:28-31 65.

1. Tyumenskiy filial Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya.

TOLSTIKOV, G.A.

Hydrological conditions of the Ural Mountain oil and gas bearing region of the West Siberian Plain. Neftegaz, geol. i geofiz. no.10:46-49 '64 (MIRA 18:1)

l. Tyumenskiy filial Sibirskogo nauchmo-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya.

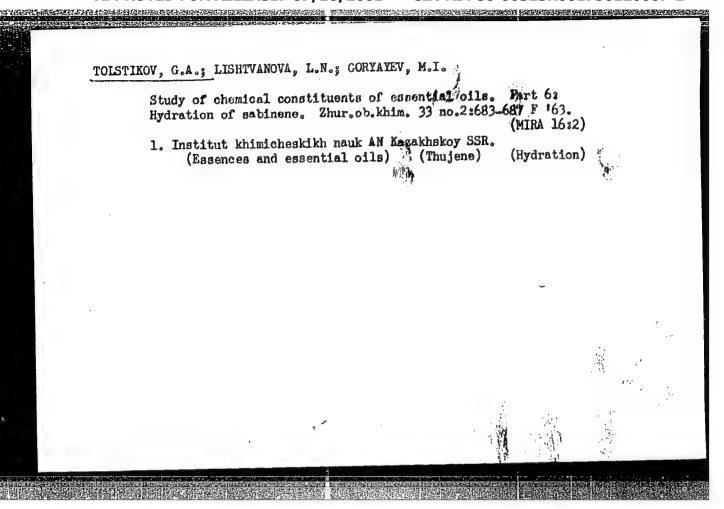


TOIS TIKOV, G.A.; GORYAYEV, M.I.

Study of substances, constituents of etherial oils. Part 7:
Addition of carbon tetrachloride to sabinene. Zhur.ob.knim. 33
no.6:2061-2065 Je '63. (MIRA 16:7)

1. Institut khimicheskikh nauk AN Kazakhekoy SSR. (Thujene) (Carbon tetrachloride)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"



GCRYAYEV, M.I.; TOLSTIKOV, G.A.

Study of the constituents of essential oils. Part 5: Addition of elechols to sabinene. Zhir.ob.khim. 33 no.3:1031-1037 Mr '63. (MIRA 16:3)

1. Institut khimicheskikh nauk AN Kazakhskoy SSR. (Alcehols) (Thujene)

GORYAYEV, M.I., akademik; TOLSTIKOV, G.A.; IGNATOVA, L.A.; DEMBITSKIY, A.D.

Natural & cedrene. Dokl. AN SSSR 146 nc.6:1331-1332 0 '62. (MIRA 15:10)

1. Institut khimicheskikh nauk AN KazSSR. 2. AN KasZZR (for Goryayev). (Cedrene)

GORYAYEV, M.I.; TOLSTIKOV, G.A.

Study of the chemical constituents of essential oils. Part 4: Reduction of cedrene A-oxide. Zhur.ob.khim. 32 no.3:997-999 Mr '62. (MIRA 15:3)

Server Later

1. Institut khimicheskikh nauk AN KazSSR. (Cedrene)

GORYAYEV, Mikhail Ivanovich, akademik; PLIVA, Iozef. Prinimali uchastiye: TOLSTIKOV, G.A.; LISHTVANOVA, L.N.; GEROUT, V. [Heroit, V.]; KAYL, B.[Kajl, B.], doktor khim. nauk; NAVOTNYY, L. [Novotna, L.], doktor khim. nauk; GLAZYRINA, D.M., red.; ALFEROVA, P.F., tekhn. red.

[Methods of studying essential oils] Metody issledovaniia efirnykh masel. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 750 p. (MIRA 15:7)

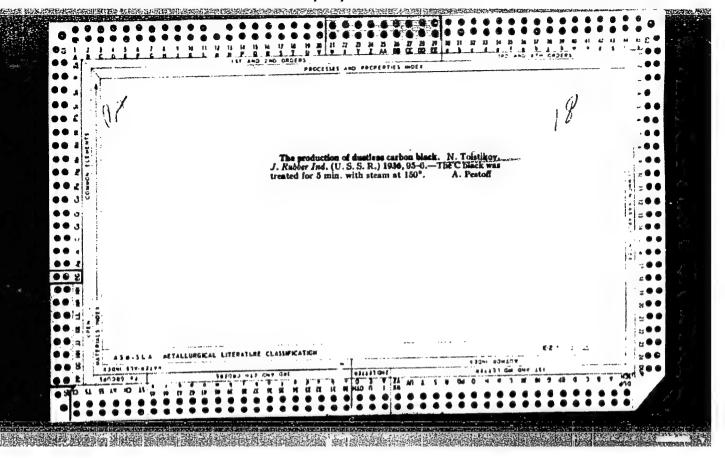
1. Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR (for Goryayev, Tolstikov, Lishtvanova). 2. Chleny-korrespondenty Akademii nauk Chekhoslovakii (for Pliva, Gerout). 3. Institut organicheskoy i biologicheskoy khimii Chekhoslovatakoy Akademii nauk (for Pliva, Gerout, Kayl, Navotnyy).

(Essences and essential oils)

TOLSTIKOV, K.

Assault of the Angara River. Sov.foto. 19 no.8:4 Ag '59.
(MIRA 13:1)

1. Potokorrespondent gazety "Izvestiya."
(Bratek Hydroelectric Pover Station)
(Photography, Journalistic)



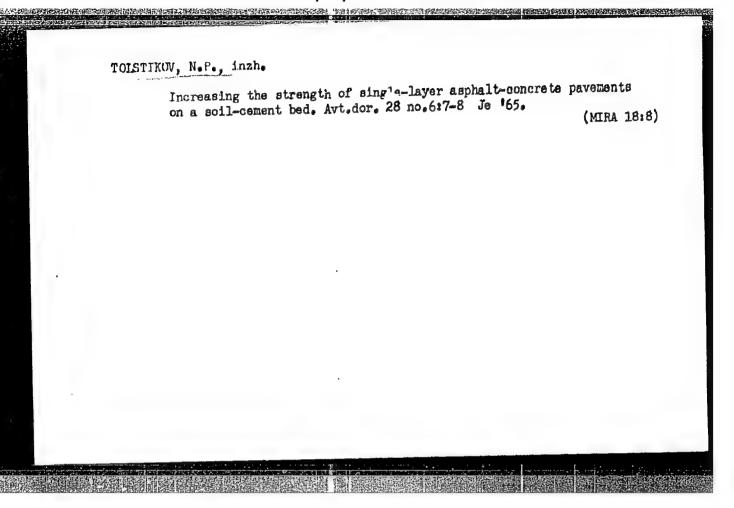
BYT'KO, Nikolay Dmitriyevich; PALEOLOG, G.D., retsenzent; TOLSTIKOV,
N.A., retsenzent; IVANOV, I.A., red.; VORONINA, R.K., tekhn.

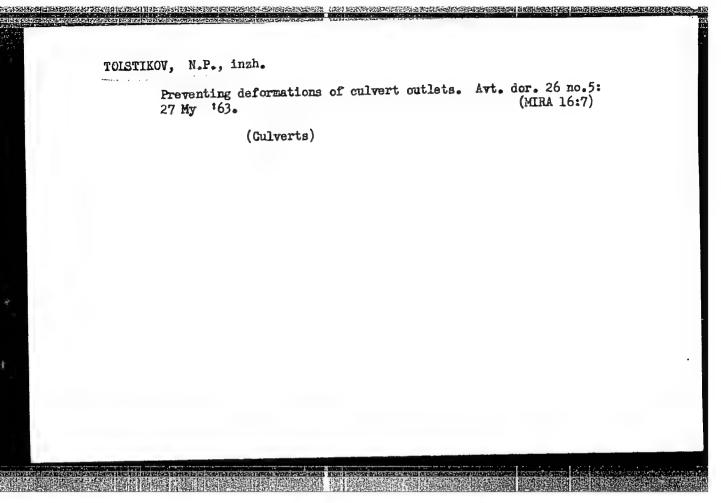
[Physics for secondary special correspondence schools] Fizika dlia zacchnykh srednikh spetsial nykh uchebnykh zavedenii.

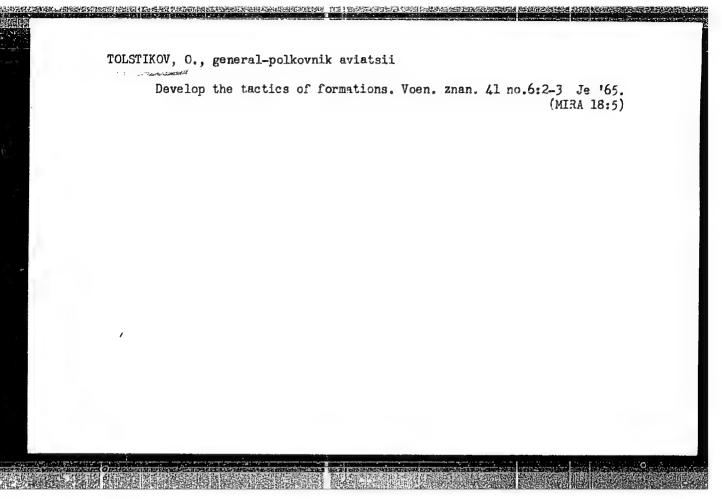
Moskva, Gos. izd-vo "Vysshaia shkola," Pt.1-2. [Mechanics.

Molecular physics and heat] Mekhanika. Malekuliarnaia fizika i teplota. 1961. 323 p. (MIRA 15:3)

(Physics)







TOLSTIKOV, (), V.

Subject : USSR/Aeronautics - history AID P - 5438

Card 1/1

Pub. 135 - 15/31

Author

Tolstikov, O. V., Lt. General of air force and N. P.

Dagayev, Lt. General of air force.

Title

The forty-seventh air division in the battle of the

native capital.

Periodical

: Vest. vozd. flota, 1, 65-69, Ja 1957

Abstract

The carrying out of various missions by the 47th mixed air division (bombers, shturmoviks, and fighters) in the battle of Moscow in 1941 are described in this article.

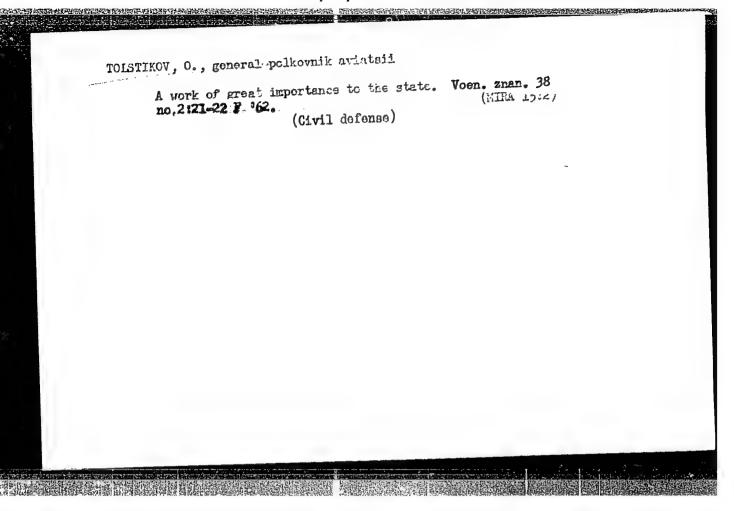
The article is of informative value.

Institution :

None

Submitted

No date



TOLSTIKOV, 0., general-polkovnik aviateii

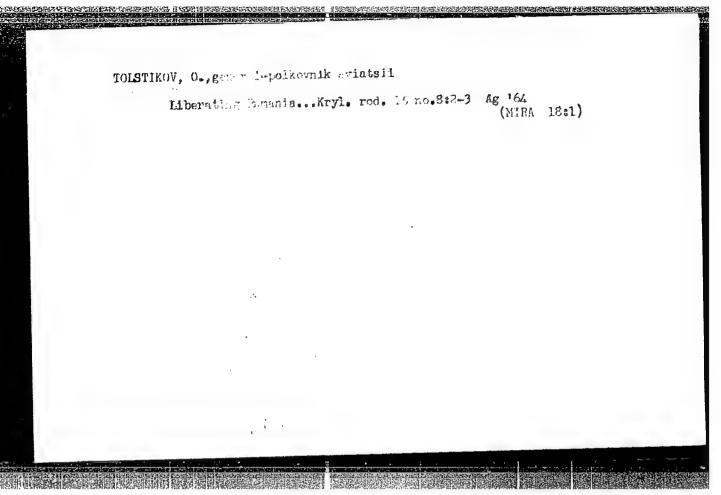
There must be an all-out improvement in the training of the people. Voen. znan. 39 no.4133-34 Ap '63. (MIRA 16:6)

(Civil defense)

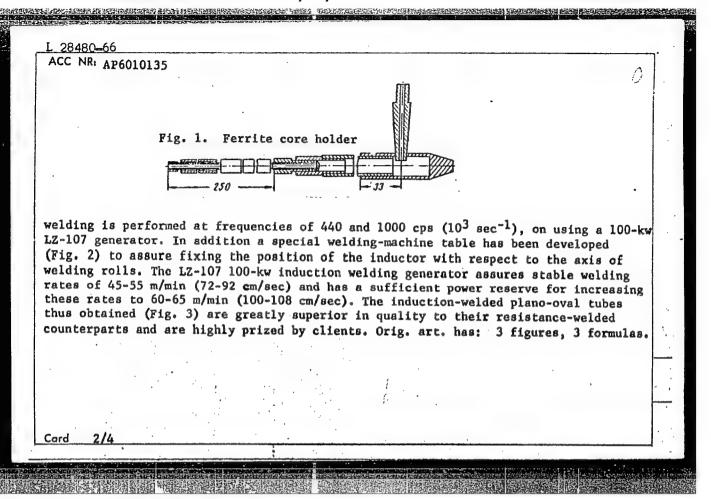
TOISTIKOV, O., general-polkovnik aviatsii

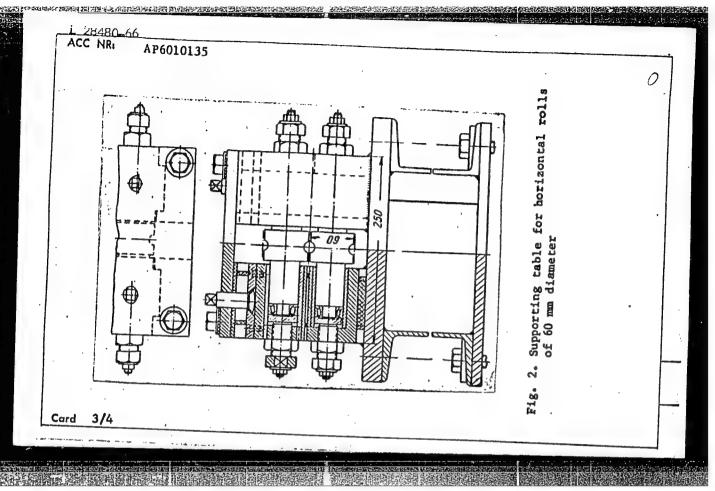
Greater discipline and business ability in the work of staffs.
Voen. znan. 40 no.8:1-2 Ag '64.

(MIRA 17:11)

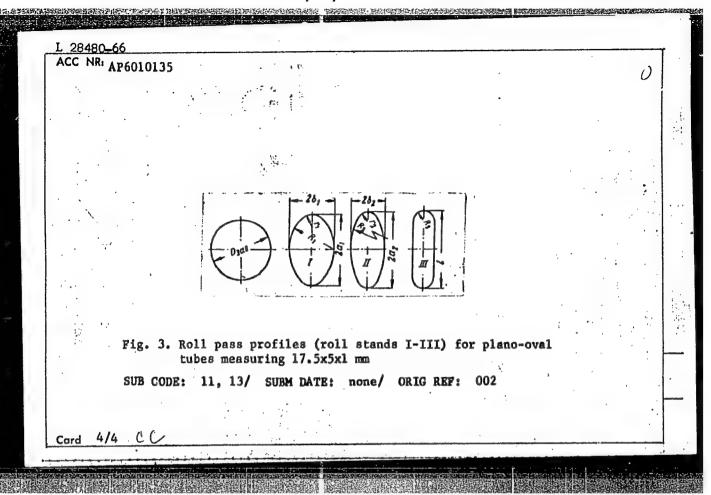


	L 28486-66 EAF(k)/EWT(m)/T/EWP(v), EWP(t)/EII JD/HM	
	ACC NR: AP6010135 SOURCE CODE: UR/0133/66/000/003/0245/0248	
	AUTHOR: Matveyev, Yu. M. (Doctor of technical sciences); Grinberg, Z. A. (Engineer); Tolstikov, R. M. (Engineer); Gazman, S. M. (Engineer)	
	ORG: none $\beta$	
	TITLE: Radio-frequency welding of plano-oval radiant-heating tubes	-
	SOURCE: Stal', no. 3, 1966, 245-248	•
	TOPIC TAGS: generator. metal tube, induction welding, power welding equipment, welding technology / LZ-107 generator	
	ABSTRACT: Owing to a technological breakthrough at the <u>Pervoural sk Tube Plant</u> induction welding of tubes of diameter smaller than 16 mm is now possible on an industrial scale. The techniques of this welding are described here for the production	
	of radiant-heating tubes from circular skelp of 13.2 mm diameter, with wall thickness of 1 mm. A specially developed ferrite-core ring holder (Fig. 1) assuring a quick replacement of ferrite-core sets is employed: it is very simple to construct and it	
	an addition to the territe cores during the molding for the family	-
	core rings are used to increase current concentration at the skelp edges.) The internal surface of the ferrite core rings is cooled with water entering via a 3-mm diame-	
	ter capillary tubule and the external surface, with the water filling the tube. The	
	Card 1/4 UDC: 621.774.2	
•.		





APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"



	IR: AP5023086	MYM/JO/HW/HM/MB	)/T/EWA(d)/EWP(v)/EW UR/0125/65/0	00/009/00/5/0065
		135	WK 621.791.762	.621.9-462:669.14.0.
AUTHOR	crinberg, Z.v, V.I. (Engine	A. (Engineer): Gazmaı	n, S.M. (Engineer); To	stikov. R.M. (Engin
1 Te oue	41.55 (Engine	er)	44.55	1/4/23
TITLE:	Effect of coo	ling rate of seam on	the corrosion resista	oce of valded wines
2.2011	HICHIOT Breet	•	44.55	84
SOURCE	: Avtomatiches	kaya svarka, no. 9, j	1965, 65-66	80 B
	By coouding race	, corresion, corresion	pipe, stainless steel on resistance, weld her	welding technology,
head pused to remove which which show the ably relationship.	ressure gas nozzo prevent the dra through the through the throad at lat 1) intensive educes the number to the cooling to the second sec	zle to provide a mini ropping of the water nin wall of the case a safe distance from a cooling of the seam ar of rejects due to	was investigated by a installed inside the partial flash. A special or steam into the molt continuously washed by the welding zone. The and of the thermal efficorrosion, 2) it is added to the whose wall thickness in be expected in welding the state of the corrosion.	y designed case was sen pool. The heat was a stream of water se experimental resulfect region consider wantageous to apply
Card	fo			- 44 -

t	ubstantland	h mm or more, an	ont The Pervoural Bkly Bu	g in stainless pipe welding ercrystalline corrosion with arctrubnyy zavod (First Ural coling to the seam and weld o years with positive result
	Plant of 010 region in ar	gon arc welding	of pipes for a period of tw	Ural Plant of Old Style Pip
1 1	SUBMITTED:	26Feb65	ENCL: 00	SUB CODE: MM, IE
1	NO REF SOV:		OTHER: 000	
		·		
1				· 4P
1				

OSIPOV, V., inzh.; TOLSTIKOV, V., inzh.

New grinding machine. Mekh. stroi. 20 no.10:22 0 '63. (MIRA 16:10)

Using sprayers for applying herbicides to flax fields. Tekh. v sel'khoz. 20 no.6:58-61 Je '60.  1. Vsesoyuznyy nauchno-issledovatel'skiy institut l'na. (Spraying and dusting equipment) (Flax)

TOLSTIKOV, V., komandir roty, starshiy leytenant; DUBININ, N., podpolkovnik; KOTEL'NIKOV, A., kapitan; SAVECHENKOV, leytenant;
SEROKHVOSTOV, N., komandir roty, gvardii kapitan; DEMIDOV, A.,
podpolkovnik; CHIRKOV, N., komandir roty, kapitan; DERZHANOVSKIY, S., komandir roty, gvardii kapitan; SOKOLOV, A.,
mladshiy serzhant

Solution of tactical problems published in no. 8. Voen.vest. 38

Solution of tactical problems published in no. 8. Voen.vest. 38 no.12:41-43 D 158. (MIRA 12:1)

TOLSTIKOV, V.A.; SHERMAN, L.Ye.; STAVISSKIY, Yu.Ya.

Measuring the capture cross sections of 5-200 Kev. neutrons for U<sup>238</sup> and Th<sup>232</sup>. Atom. energ. 15 no.5:414-415 N | 63. (MIRA 16:12)

s/194/62/000/004/089/105 D271/D308

AUTHORS:

PERIODICAL:

Tolstikov, V. A. and Dashenkov, V. M.

TITLE:

Measurement of electromagnetic fields in cavity resonators by the method of small disturbing body

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4zh245 (Uch. zap. Saratovsk. un-t, 1960, 69, 274-284)

TEXT: The question whether it is feasible to determine the direction of E vector in cavity resonators by the method of small disturbing body, is theoretically treated and experimentally checked. Expression is derived for the fractional frequency variation of the resonator of, when the disturbing body is a homogeneous ellipsoid with arbitrary values of  $\mathcal{E}$  and  $\mathcal{A}$ . The method is analyzed for determining the direction of  $\mathcal{E}$  by the denominant the direction of determining the direction of E by the dependence of of on the orientation of an ellipsoid of revolution (metallic or dielectric), relatively to the field. Direction distribution of E in a cylindrical resonator H<sub>111</sub> was experimentally investigated at about 800

Card 1/2

Measurement of electromagnetic ... S/194/62/000/004/039/105 D271/D308

Mc/s; divergence of averaged experimental data from the analytical values was no more than  $\pm~0.5^{\circ}$ . Abstracter's note: Complete translation.

E

Card 2/2

33001 s/641/61/000/000/028/033 B102/B138

26.2243

Tolstikov, V. A., Stavisskiy, Yu. Ya.

Fast neutron radiative capture cross sections of the Mo 100 AUTHORS:

TITLE: isotope

Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik statey. Moscow, 1961, 312-313 SOURCE:

TEXT: The fast neutron radiative capture cross sections were measured with the activation method in the range 30 to 2100 kev for  $^{100}$ neutrons were obtained from  $T(p,n)He^3$  reactions, the protons being accelerated by a Van-de-Graff. The neutron energy spread was + 50 kev for the 400-2100 kev range (target at  $\theta=0^\circ$  to the proton beam) and  $\pm$  15 -  $\pm$  30 kev for 30-400 kev (target at  $\theta$ =100° to the proton beam). irradiation of the specimens with thermal neutrons was carried out in the thermal column of a fast research reactor. The radiative capture cross sections of  $J^{127}$  were used as reference values; for thermal neutrons  $\sigma_n$ , was taken to be 5.6  $\pm$  0.3 b for  $J^{127}$  and 0.20  $\pm$  0.05 b for Mo<sup>100</sup>

Card 1/2

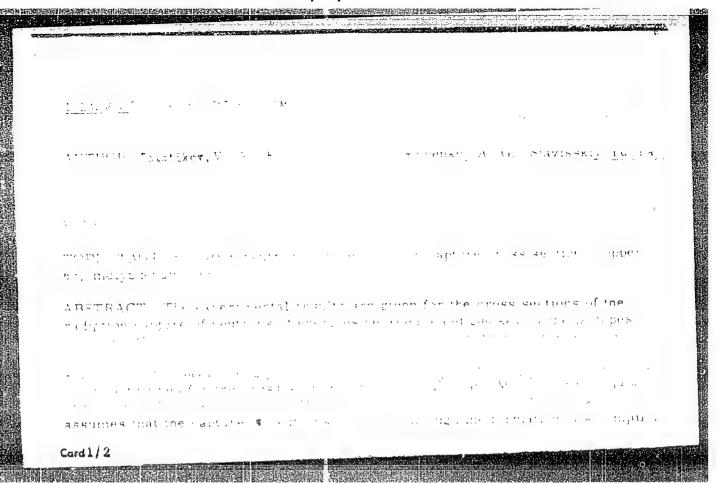
33(0)1

Fast neutron radiative capture.

S/641/61/000/000/028/033 B102/B138

For fast neutrons the U<sup>235</sup> cross sections were used as reference values. The root-mean-square measuring error was not greater than 1.5.2.5%. In the range 30 kev & E < 170 kev the fast neutron radiative capture cross sections for Mo were found to drop monotonically from 85 to 35 mb; between 170 and 400 kev they remained almost constant, then decreasing again to 10 mb at 1200 kev. Between 1200 and 2100 kev the g values remained at about 10 mb. Between 200 and 2100 kev the results are in good agreement with those of other researchers. Professor A I. Leypunskiy and O. D. Kazachkovskiy, Doctor of Physical and Mathematical Sciences, are thanked for their interest, V. I. Zotova and V. F. Nedopekin for assistance. There are 1 figure and 10 references: 4 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: J. F. Vervier, Nucl. Phys. 9, 569, 1959; S. J. Bame. R. L. Cubitt, Phys. Rev. 113, 256, 1959; D. J. Hughes, R. B. Schwartz, Neutron Cross Sections, N.Y. USA, 1958; A. E. Jonsrud et al. Bull. Amer. Phys. Soc. Series II, 2, 165, 1958.

Card 2/2



a Section 1	· · · · · · · · · · · · · · · · · · ·	<del></del>	
Digate Les Anningsposition	e Maria de Garago de Caresto de C		
g viennau e	totopolitika je objekt	to positive section of the section o	 •
\$			
aCnMi (1長)	() () () () () () () () () () () () () (		
Cara 2/2			

L 8687-65 EWT(m) SSD/AFVL MLK

ACCESSION NR: AT4048281

5/0000/64/000/000/0001/0004

ACCOUNTY Servicably you van Enteany v ve . Maly\*aher & v . Tolatikov, v. A. Shapar , A. V.

TIPLE: Radiative capture of fast monoenergetic neutrons

SOURCE: Radiatsionny\*y zakhvat by\*stry\*kh monoenergeticheskikh neytronov\*

TOPIC TAGS: radiative capture, neutron capture, capture cross section, energy dependence

ABSTRACT: The authors report briefly on their recent measurements of the cross section for the radiative capture of several activating to the cross section for the radiative capture of several activating to the cross section for the radiative capture of several activating to the cross section for the cross section for the most part by the cross section of the cross section of the cross section of the cross section for the cross section of the cross section of the cross section of the cross section for the cross section of the cross section for the cross section for

L 8687-65 ACCESSION NR: AT4048281

scintillation counter (CaF<sub>2</sub> crystal). The accuracy of the activation method was within 5% and that of the gamma-ray method within 15%. The monochromatic neutrons were obtained with a Van de Graaff generator using the reactions T(p, n) and Li(p, n), which yielded neutrons with energies from 50 keV to 2.5 MeV and from 5 keV to 200 keV, respectively. The standard reactions used for comparison were the fission of U<sup>235</sup>, the B<sup>10</sup>(n, c) reaction, and I<sup>127</sup> capture. The values obtained for the cross sections were compared with those calculated from the statistical theory. The good agreement between theory and practice for the case of iron and Cu<sup>65</sup> confirms the systematics proposed for the parameters of the radiative capture cross sections

service as house to the Matichaber, There v. 45, 316,

SUBMITTED. W

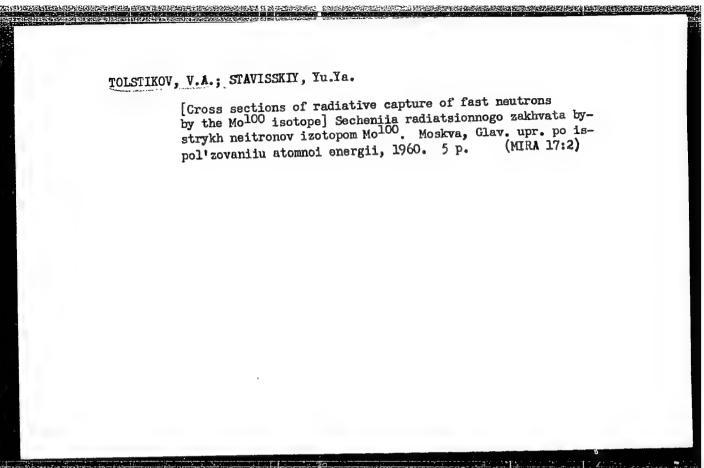
RUB CODY: MP NO MP REF NOW NO 202

aNt. Dr - Jul

OTHER: 004

.. 5 5 2,12

aid o	Calculating the neutron cross sections for tungsten with the aid of an optical nuclear model. Atom. energ. 11 no.1:56-58 J1 '61. (MIRA 14:7)			
	(Neutrons)	(Nuclear models)	i.	
			ı	



KALININ, V.I., prof., doktor fiziko-matem. nauk [deceased];

AKINDINOV, V.V.; GERSHTEYN, G.M.; DASHENKOV, V.M.; YEVSEYEV,

V.I.; IL'IN, V.S.; KOROSTELEV, G.N.; LUCHININ, V.D.; NAUMEHKO,

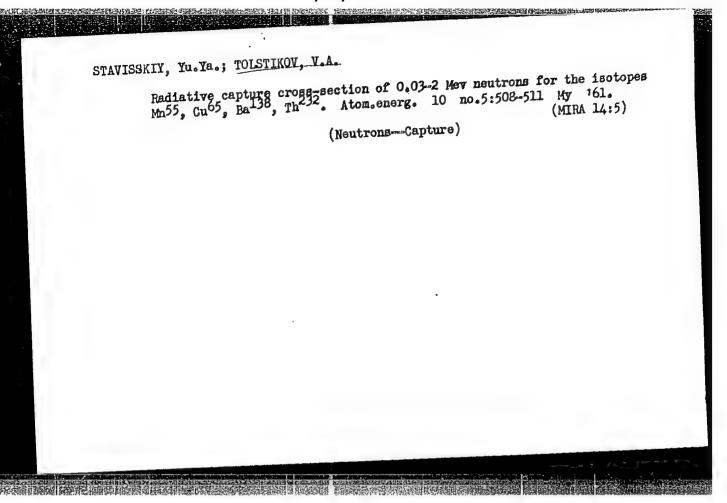
Yu.P.;RYAZANOVA, T.P.; SEDIN, V.A.; TOLSTIKOV, V.A.; SHTYROV,

A.I.; AVILOV, B.I., red.; ZENIN, V.V., tekhn. red.

[Practical work in radio physics] Radiofizicheskii praktikum. Izd.2., dop. i perer. Saratov, 1961. 277 p. (MIRA 15:1)

1. Saratov. Universitet. 2. Kafedra radiofiziki Saratovskogo universiteta im. N.G.Chernyshevskogo (for all except Avilov, Zenin).

(Radio)



STAVISSKIY, Yu. Ya.; (TOLSTIKOV, V.A.; KONONOV, V.H.

Measurement of the radiative capture cross sections of I<sup>127</sup> for fast neutrons. Atom. energ. 10 no.2:158-160 F '61. (MIRA 14:1) (Iodine) (Neutrons)

06337 SOV141-2-1-9/19

AUTHORS:

Dashenkov, V.M. and Tolstikov.

TITIE:

An Investigation of Resonance Phenomena in a System

of Distributed Coupled Lines

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1959, Vol 2, Nr 1, pp 73 - 83 (USSR)

ABSTRACT:

A system of n parallel coupled lines is considered which are loaded at their ends with arbitrary reactances. A formula is obtained for the input admittance of any line and an equation is found for the proper frequencies of the system. The arrangement studied is in Figure 1 and

the voltage and current at a section x of the i-th line is given by Eq (1). The input admittance is formally expressed as Eq (4) but the introduction of non-

dimensional parameters changes this to Eq (9). The proper

frequencies are found by equating the determinant of Eq (14) to zero but the general case is too unwieldy

and two special cases are treated:

1) The system consists of identical lines equidistant from one another and only adjacent lines are considered

coupled; Eq (14) then reduces to Eq (19), whose solution

Cardl/4 is Eq (20);

06337 SOV/141-2-1-9/19

An Investigation of Resonance Phenomena in a System of Distributed Coupled Lines

生生性性性性的 1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,1995年,

2) The system consists of n-l non-coupled identical lines, each of which, however, is coupled to the n-th line, which has different parameters. The solution to the determinant Eq (21) is Eq (22). When the n-th line is the same as the others, the solution is Eq (24). The experimental work has been carried out on lines shorted at one end and terminated in a capacitance at the other. The proper frequency of the lines was 79.3 Mc/s and the Q-factor about 300. Line length was 200 mm, line diameter 4 mm, line spacing 27 mm, capacitance load 18.6 pF. The source of excitation was the 102-I oscillator. Frequency could be measured to 1 in 104. The variation of resonant frequency on coupling for numbers of lines from 2 to 6 was observed. Experimental data on 4 and 6 lines is shown dotted in Figure 2; the solid lines are from Eq (20). Good agreement was reached with 2 lines; for more lines there are considerable discrepancies. Better agreement is found when the more rigorous Eq (14) is used. An expression for the ratio of the currents at two resonances

Card2/4

06337 SOV/141-2-1-9/19

An Investigation of Resonance Phenomena in a System of Distributed Coupled Lines

in the i-th line is Eq (25) and special cases of two lines are given by Eq (34) and of three lines by Eq (35). Experimental results for a two-line system are in Figure 3. The agreement with theory is good. For a three-line system the dependence of current ratios on coupling and frequency are plotted in Figures 4a, 5a, 6a and 7a. The resonant frequencies are in Figures 4b, 5b, 6b and 7b. The resonant frequencies are isometric resonance plots. Figures 4B, 5B, 6B and 7B are isometric resonance plots. These curves all refer to the 'first' line. Analogous results there been found for the 'second' and 'third' lines. An analysis of the results yields a recommended 6-stage tuning procedure to give the most symmetrical curve in the first line. Figure 8 shows the intermediate stages in obtaining the best response. V.I. Kalinin is thanked for his assistance. There are 8 figures and 11 references, 9 of which are Soviet, 1 German and 1 English.

Card3/4

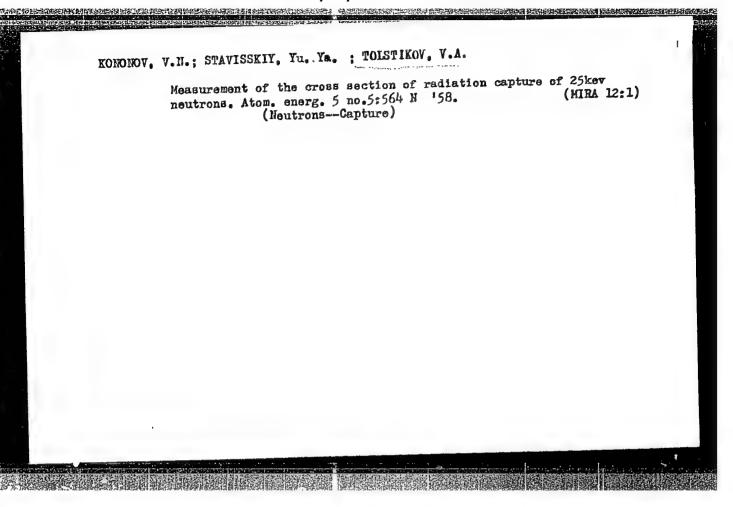
An Investigation of Resonance Phenomena in a System of Distributed Coupled Lines

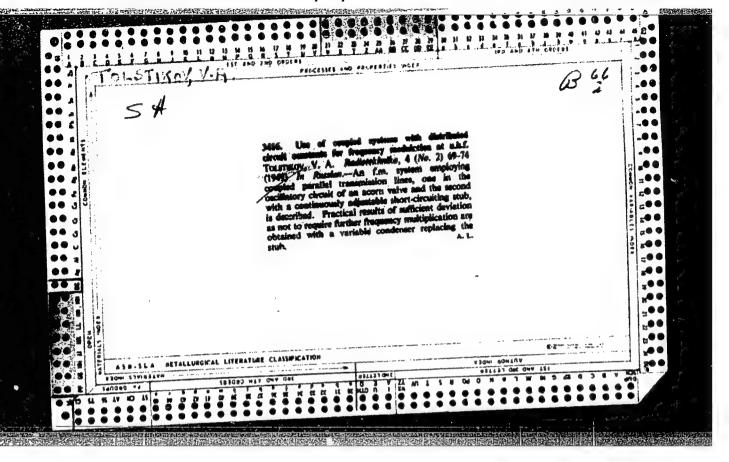
N: Saratovskiy gosudarstvennyy universitet (Saratov State University) ASSOCIATION:

SUBMITTED:

November 13, 1957

Card 4/4





s/089/60/009/005/007/020 B025/B070

AUTHORS:

Stavisskiy, Yu. Ya., Tolstikov, V. A.

TITLE:

Radiative Capture Cross Sections of the Isotopes V51

 $Nb^{93}$ ,  $W^{186}$ , and  $Tl^{205}$  for Fast Neutrons

PERIODICAL:

Atomnaya energiya, 1960, Vol. 9, No. 5, pp. 401 - 403

TEXT: The object of the work was to measure the radiative capture cross sections of the isotopes mentioned in the title for neutrons of energies of 0.03 - 2.1 Mev. The source of neutrons was the reaction

 $T(p,n)He^3$  carried out in a Van de Graaff accelerator. The sample activation by neutrons of energies  $E_n < 300$  kev was measured at an angle of 95° with the direction of the proton beam in the accelerator; for neutrons of energies  $E_n > 300$  kev it was measured at an angle of 0°. The

error in neutron energy is due to the thickness of the tritium target, the geometrical dimensions of the sample, and the fluctuations in the accelerating voltage of the accelerator. For neutron energies of up to

Card 1/6

85563

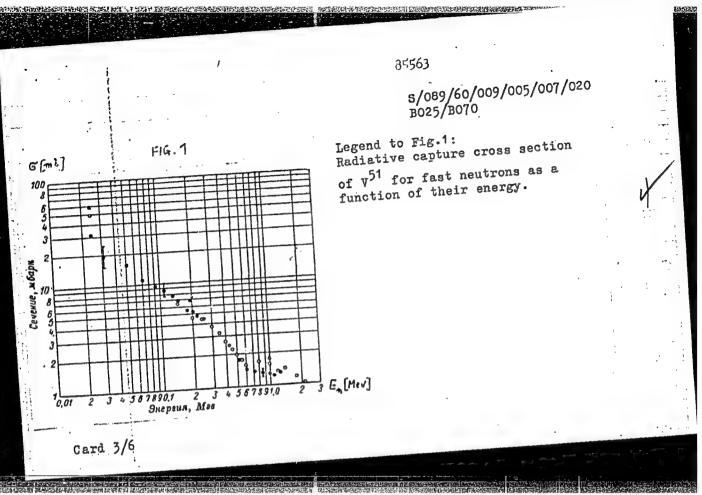
Radiative Capture Cross Sections of the Isotopes  $v^{51}$ ,  $Nb^{93}$ ,  $w^{186}$ , and  $T1^{205}$  for Fast Neutrons

200 kev the error amounted to ± 12 - 20 kev; for higher energies it was ± 30 - 40 kev. Activation by thermal neutrons was carried out in the thermal column of a fast reactor. I127 and U235 were used as standards for the cross section measurements by the method of relative activation. The results of measurement are represented in Figs. 1-4, their accuracy being 2 - 5%. For neutrons of energies higher than 150 kev the results for V51 and W186 agree well with the measurements of Barshall; for T1205 agreement is not so good. The capture cross section for Nb93 is essentially equal to the production cross section of the isomer Nb94.

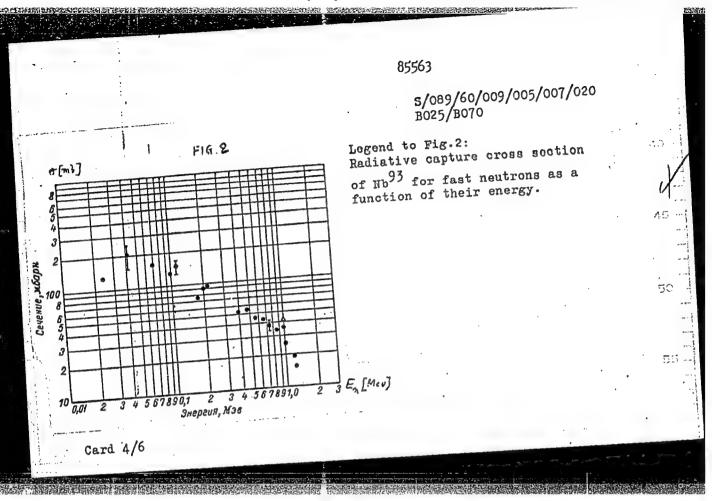
A. I. Leypunskiy, Member of the Academy of Sciences of the UkrSSR, and O. D. Kazachkovskiy, Doctor of Physical and Mathematical Sciences, are thanked for valuable discussions. There are 4 figures and 11 references: 4 Soviet and 7 US.

SUBMITTED: April 27, 1960

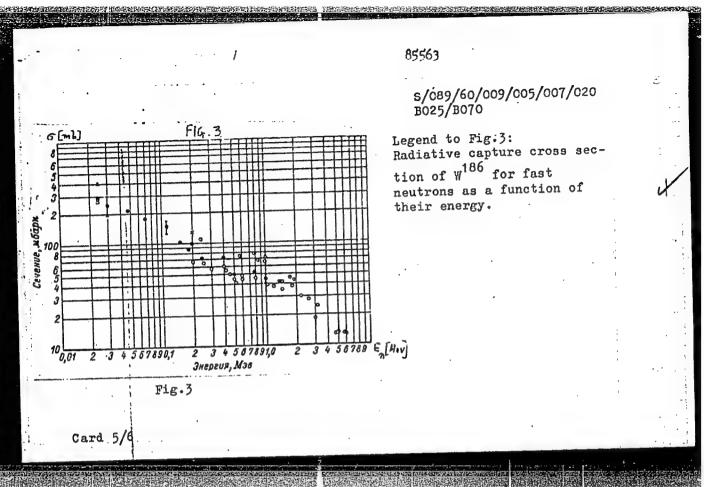
Card 2/6

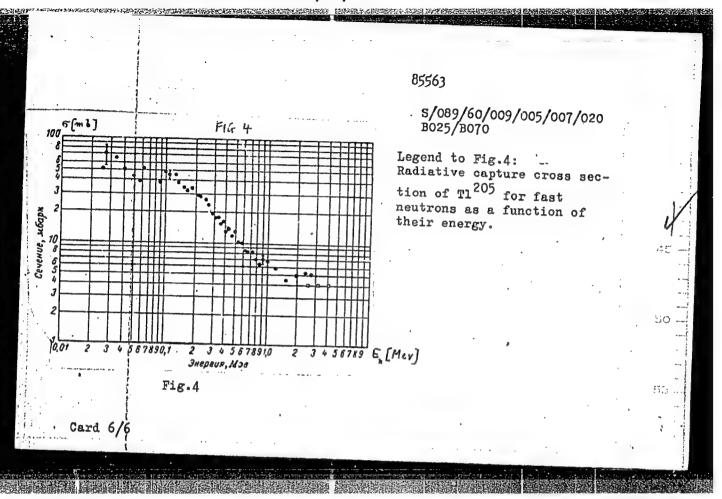


APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"

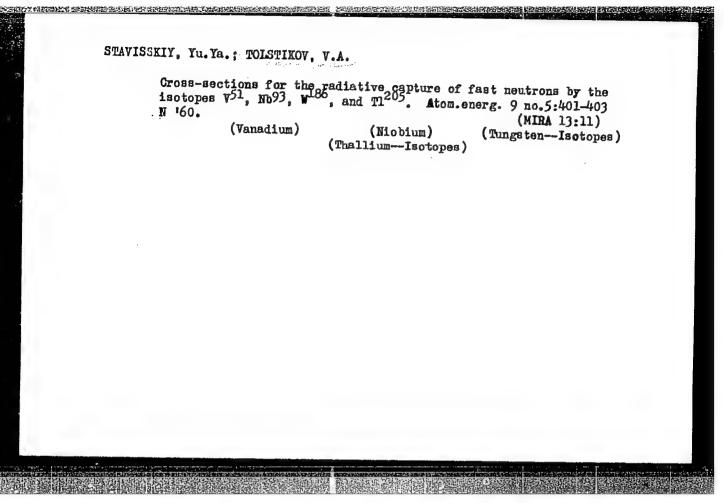


APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"





APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"



89358

s/089/61/010/002/008/018 B102/B209

26.2243

Stavisskiy, Yu. Ya., Tolstikov, V. A., Kononov, V. N.

TITLE:

AUTHORS:

Measurement of the radiative capture cross section of fast

neutrons by I127

PERIODICAL: Atomnaya energiya, v. 10, no. 2, 1961, 158-160

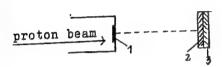
TEXT: In activation measurements I 127 is suited as a standard; it has an apt half-life, sufficiently high radiative capture cross section, and a known thermal neutron capture cross section. Data on fast-neutron capture are not yet available and/or the existing data are erroneous or contradictory, particularly in the range of 0.01 - 2.5 Mev. The authors measured (1958 - 1959) the energy dependence of the radiative capture cross sections for 0.02 - 2.5 Mev neutrons by means of the activation method. A U235 fission chamber and the I127 sample were simultaneously irradiated with a fast-neutron beam and the arising  $\beta$ -activity was measured with an end-window counter. The reaction T(p,n)He<sup>3</sup> served as a source of fast neutrons. The arrangement of tritium target (1), I<sup>12</sup>7 sample (2), and fission chamber (3) was as follows:

Card 1/4

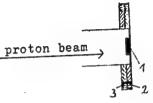
89358

S/089/61/010/002/008/018 B102/B209

Measurement of the ...



Irradiation by neutrons with energies > 300 kev



Irradiation by neutrons with energies <300 kev

The measurements below 0 and  $100^\circ$  with respect to the proton beam direction lead to an "overlapping" of neutron energies; the agreement of the cross sections in this region proved the measurements to be reliable. The effect of the neutrons scattered from the walls was less than 0.3% and was determined from the deviation from the  $1/R^2$  law. Standard measurements with thermal from the deviation from the  $1/R^2$  law. Standard measurements with thermal neutrons were carried out at the thermal column of a fast reactor. Activation cross section of 1127 by thermal neutrons was assumed to be  $5.6\pm0.3$  b (according to Ref. 8), 1235 fission cross section to be 11270 by the cordination conditions are considered as 11270 by the cross section to be 11270 by the cross section to the cross section to the cros

Card 2/4

89358 \$/089/61/010/002/008/018 B102/B209

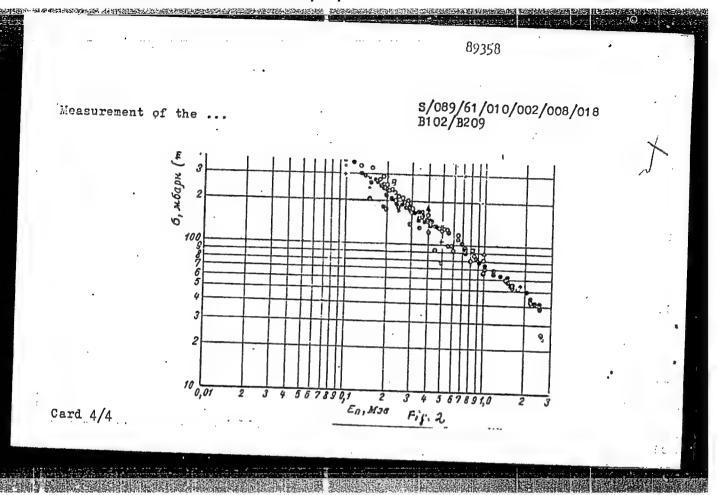
Measurement of the ...

Ref. 9). The error in the obtained value of the radiative capture cross section of I<sup>127</sup> is, in essential, due to the U<sup>235</sup> fission cross section error (12 - 25%). Fig. 2 shows a comparison between the results obtained by the present measurements (c) and those of other authors  $(0,0,0,\times,\Delta,\Xi,\Xi,\pm,\Delta)$ . The o curve drops monotonically with increasing En and may, within accuracy of measurement, be approximated through a E<sup>-0.7</sup> curve. In conclusion, the authors thank A. I. Leypunskiy, O. D. Kazachkovskiy, and V. S. Stavinskiy for their interest and discussions. There are 2 figures and 14 references: 5 Soviet-bloc and 9 non-Soviet-bloc.

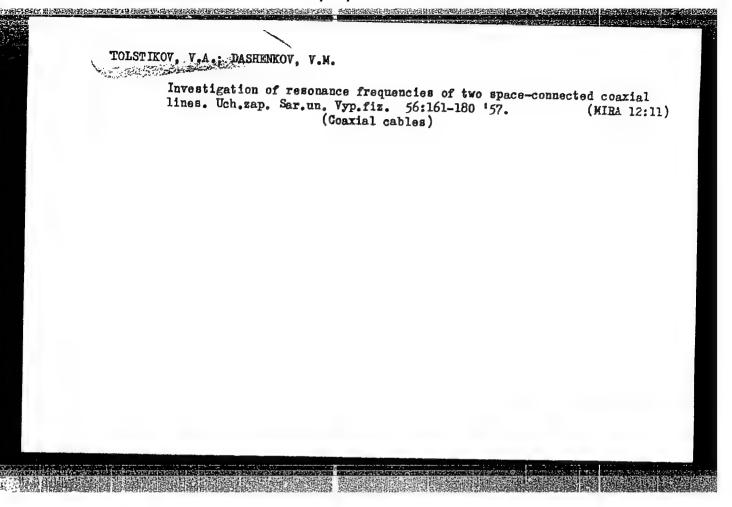
SUBMITTED: July 14, 1960



Card 3/4



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"



SOV/89-7-3-12/29

21(7) AUTHORS: Stavisskiy, Yu. Ya., Tolstikov, V. A.

TITLE:

The Measurement of the Cross Sections of the Radiative Capture

of Fast Neutrons by Isotopes of Gallium

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 3, p 259 (USSR)

ABSTRACT:

By comparison with the capture cross section of  $J^{127}$  the capture cross sections of  $Ga^{21}$  were measured. The samples of the respective gallium isotope and the iodine sample used for comparison were, at the same time, irradiated

by a fast neutron flux. The occurring β-activities were

measured by means of an end-window-counter. After the decrease

of  $\beta$ -activity, both samples were irradiated in a thermal neutron flux and the occurring  $\beta$ -activities were newly measured.

By comparison of the activities occurring in both cases, it was possible to calculate  $\sigma x(n,\gamma)$ . The protons accelerated in a Van de Graaf generator furnished the fast neutrons with the aid of the reaction T(p,n)He3. Within the energy range of from 200 to 1400 kev, the neutron energy could be measured

with an accuracy of  $\pm$  30 keV, and within the range of 1400 to 200 kev with an accuracy of + 50 kev. Irradiation with thermal neutrons took place in the thermal column of the experimental fast reactor. In order to eliminate the

Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"

SOV/89-7-3-12/29

公共行动 化拉拉克 化耐水油 化阿拉特克 医克克特氏 医多种性 医多种毒性

The Measurement of the Cross Sections of the Radiative Capture of Fast Neutrons by Isotopes of Gallium

influence of resonance—and fast neutrons, the "cadmium" method was employed. The results obtained are shown graphically. In the case of Ga<sup>69</sup> a smooth dependence of the capture cross section on neutron energy is found, whereas in the case of Ga<sup>71</sup> a sharper decrease is observed in the neighbor hood of 550 kev. This is probably due to the inelastic scattering of neutrons on the levels 510 and 610 kev of Ga<sup>71</sup>. There are 1 figure and 3 references, 1 of which is Soviet.

SUBMITTED: March 26, 1959

Card 2/2

SOY/112-59-5-9917

9(0)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 212 (USSR)

AUTHOR: Tolstikov, V. A.

TITLE: Calculating Resonant Frequencies and Some Applications of Two

Space-Coupled Two-Wire Lines

PERIODICAL: Uch. zap. Saratovsk. un-t, 1957, Vol 56, pp 146-160

ABSTRACT: A system comprising two space-coupled (parallel) two-wire lines is considered. Expressions for currents and voltages in a no-loss line derived by A. A. Pistol'kors are used as initial equations for computing resonant frequencies. The resonant frequency of coupled lines is calculated for certain loads. Use of coupled lines for capacitance and impedance measurements is considered.

S.I.S.

Card 1/1

SOV/112-59-1-2006

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 289 (USSR) 9(1)

AUTHOR: Tolstikov, V. A., and Dashenkov, V. M.

TITLE: Investigation of Resonant Frequencies of Two Coaxial Lines With a

Distributed Coupling

PERIODICAL: Uch. zap. Saratovskiy un-t, 1957, Vol 56, pp 161-180

ABSTRACT: A theoretical calculation and experimental investigation of the resonant frequencies of two mode-TEM coaxial resonators are reported. There is a distributed coupling - via a longitudinal slot - between the resonators. A set of two charged cylinders over an infinite conducting plane has been obtained by means of three conformal mappings; the infinite conductive plane is replaced by mirror images of the cylinders. Electrical axes of the cylinders are found, up to the n-th order, by a method of successive mirror images on condition that the cylinder surfaces are equipotential. Characteristic impedances of the set are determined, taking into

Card 1/2

SOV/112-59-1-2006

Investigation of Resonant Frequencies of Two Coaxial Lines With a Distributed .

account the axes up to the second order inclusive. Resonant frequencies of the set are calculated. The experiment has satisfactorily confirmed calculations.

A.M.R.

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756120007-2"